

Y. Lee et al.  
U.S. Serial No. 10/635,245  
Page 2 of 7

**Amendments to the claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of claims:**

Claim 1 (currently amended): A ground-enhanced semiconductor package, comprising:  
a lead frame having at least one die pad, a plurality of tie bars connected with and supporting the die pad, a plurality of leads surrounding the die pad, and a ground structure;  
wherein the ground structure comprises at least one of first ground portions connected to the tie bars, wherein the first ground portions are separate from each other, and a hollow-out area is formed between the first ground portion and one of the tie bars;  
at least one chip mounted on the die pad and electrically connected to the leads and the first ground portion of the ground structure by bonding wires; and  
an encapsulation body for encapsulating the chip and the lead frame.

Claim 2 (previously presented): The ground-enhanced semiconductor package of claim 1, further comprising at least one of second ground portions connected to the die pad, wherein the second ground portions are separate from each other and from the first ground portions.

Claim 3 (original): The ground-enhanced semiconductor package of claim 1, wherein the first ground portion is connected to the die pad.

Claim 4 (currently amended): The ground-enhanced semiconductor package of claim 3, wherein the first ground portion comprises a ground area and a connection area which are interconnected to form athe hollow-out area together with one of the tie bars.

Claim 5 (original): The ground-enhanced semiconductor package of claim 1, wherein the first ground portion is not connected to the die pad.

Y. Lee et al.  
U.S. Serial No. 10/635,245  
Page 3 of 7

**Claim 6 (original):** The ground-enhanced semiconductor package of claim 5, wherein the first ground portion is shaped as a strip.

**Claim 7 (previously presented):** The ground-enhanced semiconductor package of claim 2, wherein the second ground portion comprises a ground area and at least one connection area which are interconnected to form a hollow-out area together with a side edge of the die pad.

**Claim 8 (original):** The ground-enhanced semiconductor package of claim 1, wherein each of the tie bars is formed with at least one of the first ground portions.

**Claim 9 (original):** The ground-enhanced semiconductor package of claim 1, wherein the first ground portions are connected to both lateral sides of the tie bars.

**Claim 10 (currently amended):** The ground-enhanced semiconductor package of claim 42, wherein each side edge of the die pad is formed with at least one of the second ground portions.

**Claim 11 (currently amended):** A lead frame, comprising:

a body having at least one die pad, a plurality of tie bars connected with and supporting the die pad, and a plurality of leads surrounding the die pad; and

a ground structure comprising at least one of first ground portions connected to the tie bars, wherein the first ground portions are separate from each other, and a hollow-out area is formed between the first ground portion and one of the tie bars.

**Claim 12 (previously presented):** The lead frame of claim 11, further comprising at least one of second ground portions connected to the die pad, wherein the second ground portions are separate from each other and from the first ground portions.

**Claim 13 (original):** The lead frame of claim 11, wherein the first ground portion is connected to the die pad.

Y. Lee et al.  
U.S. Serial No. 10/635,245  
Page 4 of 7

Claim 14 (currently amended): The lead frame of claim 13, wherein the first ground portion comprises a ground area and a connection area which are interconnected to form ~~a~~the hollow-out area together with one of the tie bars.

Claim 15 (original): The lead frame of claim 11, wherein the first ground portion is not connected to the die pad.

Claim 16 (original): The lead frame of claim 15, wherein the first ground portion is shaped as a strip.

Claim 17 (previously presented): The lead frame of claim 12, wherein the second ground portion comprises a ground area and at least one connection area which are interconnected to form a hollow-out area together with a side edge of the die pad.

Claim 18 (original): The lead frame of claim 11, wherein each of the tie bars is formed with at least one of the first ground portions.

Claim 19 (original): The lead frame of claim 11, wherein the first ground portions are connected to both lateral sides of the tie bars.

Claim 20 (currently amended): The lead frame of claim ~~11-12~~, wherein each side edge of the die pad is formed with at least one of the second ground portions.